



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

TRANSACTIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

GEORGE DAVID BIRKHOFF

ARTHUR BYRON COBLE

LUTHER PFAHLER EISENHART

WITH THE COOPERATION OF

**OLIVER E. GLENN
EDWARD KASNER
HOWARD H. MITCHELL
FOREST R. MOULTON**

**WALLIE A. HURWITZ
AUBREY J. KEMPNER
CHARLES N. MOORE
FRANCIS R. SHARPE
ERNEST J. WILCZYNSKI**

**DUNHAM JACKSON
WILLIAM R. LONGLEY
ROBERT L. MOORE
JOHN H. M. WEDDERBURN**

**VOLUME 22. NUMBER 3
JULY 1921**

**PUBLISHED BY THE SOCIETY
LANCASTER, PA., AND NEW YORK
1921**

PUBLICATIONS
OF THE
American Mathematical Society

**Bulletin of the
American Mathematical Society**

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

The BULLETIN contains critical reviews of mathematical treatises and text-books, a monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical bodies, reports on progress in various branches of the science, reports of meetings of the Society and of other mathematical societies and congresses, and shorter original articles.

Price per annual volume, \$7.00; single number, 75 cents. Subscriptions and orders should be addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York, N. Y.

Published Papers. Vol. I

**MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL
CONGRESS HELD IN CONNECTION WITH THE WORLD'S
COLUMBIAN EXPOSITION, CHICAGO, 1893.**

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

For sale at the New York office of the Society. 8vo, pp. 411. Price \$4.00; to members of the Society, \$2.00.

The Evanston Colloquium Lectures on Mathematics
DELIVERED FROM AUG. 28 TO SEPT. 9, 1893, BEFORE MEMBERS OF THE
CONGRESS OF MATHEMATICS HELD IN CONNECTION WITH
THE WORLD'S FAIR IN CHICAGO, AT
NORTHWESTERN UNIVERSITY, EVANSTON, ILL.

By FELIX KLEIN

Reported by ALEXANDER ZIWET.. Republished by the AMERICAN MATHEMATICAL SOCIETY, NEW YORK, 1911. Price \$1.25; to members of the Society 75 cents.